3rd Grade Math
Distance Learning Packet
Week 1

Directions:

**Daily Directions**

Read directions for the topic and follow the examples.

Students should complete approximately 1-2 sections per day

Contact Information:

**Teacher Contact Information**

**School Contact Information**
Chapter 1
Whole Numbers

Standard(s) covered: 3.NBT.A.1, LEAP.I.3.2

1.1 Place Value (DOK 1, 2)

Place value is the value of each digit in a number. Look at the number 3,452.

<table>
<thead>
<tr>
<th>Thousands</th>
<th>Hundreds</th>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000</td>
<td>100</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>5</td>
<td>2</td>
</tr>
</tbody>
</table>

- Ones: The 2 is placed in the ones column.
- Tens: The 5 is placed in the tens column.
- Hundreds: The 4 is placed in the hundreds column.
- Thousands: The 3 is placed in the thousands column.

Use the numbers in the chart below to answer the questions. Write your answers on the lines. (DOK 1)

| 5,178 | 4,217 | 9,056 | 8,604 |

1. Which number has a 1 in the tens place? ________________
2. Which number has a 6 in the hundreds place? ________________
3. Which number has a 7 in the ones place? ________________
4. Which number has a 9 in the thousands place? ________________
5. Which number has a 0 in the tens place? ________________
6. Which number has a 5 in the thousands place? ________________
Chapter 1 Whole Numbers

Write your answers about place value on the lines. Use one of these words for each answer: thousands hundreds tens ones (DOK 1)

7. What is the place value of the 2 in the number 902? _________________

8. What is the place value of the 6 in the number 4,612? _________________

9. What is the place value of the 3 in the number 5,130? _________________

10. What is the place value of the 4 in the number 4,725? _________________

Write the number that is in the correct place value. (DOK 1)

11. Which digit is in the tens place of the number 6,720? _________________

12. Which digit is in the thousands place of the number 4,920? _________________

13. Which digit is in the ones place of the number 8,753? _________________

14. Which digit is in the hundreds place of 6,741? _________________

Decide if each sentence is true or false. Underline your answer. The first one is done for you. (DOK 1)

15. The number 3 is in the hundreds place in 4,381. True False

16. The number 8 is in the tens place in 1,825. True False

17. The number 5 is in the ones place in 4,075. True False

18. The number 6 is in the thousands place in 6,923. True False

19. The number 0 is in the tens place in 7,018. True False

20. The number 4 is in the hundreds place in 6,148. True False
You can find which number is greater or less than another number by comparing the digits in the numbers.

**Example 1:** Which number is larger, 5,612 or 5,621?

**Step 1:** Compare the numbers using the largest place value first, the thousands place.

- 5,612 has a 5 in the thousands place.
- 5,621 has a 5 in the thousands place.

Both numbers have a 5 in the thousands place, so you must compare the next largest place value.

**Step 2:** 5,612 has a 6 in the hundreds place.

- 5,621 has a 6 in the hundreds place.

Both numbers have a 6 in the hundreds place, so you must compare the next largest place value.

**Step 3:** 5,612 has a 1 in the tens place.

- 5,621 has a 2 in the tens place.

Since 2 is greater than 1, the **tens place** shows that 5,621 is greater than 5,612.

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Look at each pair of numbers. Decide which number is larger and underline the larger number. Then, write the name of the place value that made your decision. The first one is done for you. (DOK 2)

21. Which is larger: 9,207 or 9,307? By which place value? **hundreds**

22. Which is larger: 8,212 or 8,112? By which place value? _________________

23. Which is larger: 3,670 or 3,679? By which place value? _________________

24. Which is larger: 4,527 or 5,527? By which place value? _________________

25. Which is larger: 6,784 or 6,783? By which place value? _________________
1.2 Reading and Writing Whole Numbers (DOK 1)

Numbers in standard form use numbers for place value, such as 12,457, or 9,872. The same numbers can be written in word form for place value, such as twelve thousand, four hundred fifty-seven, or nine thousand, eight hundred seventy-two.

Example 1: Write 4,591 in word form.

Step 1: Look at the largest digit, 4. It is in the thousands place. Write four in word form and then the word thousand. Add a comma, just like in the number form four thousand,

Step 2: Look at the next largest digit, 5. It is in the hundreds place. Write five in word form and then the word hundred. Now we have: four thousand, five hundred

Step 3: Look at the last two digits together, 91. The nine is in the tens place, and the one is in the ones place. 91 is written ninety-one. Notice the dash between the two numbers. We are done.

four thousand, five hundred ninety-one

Write each number in written form on the lines. (DOK 1) Words you will need:

one two three four five six seven eight twelve
seventeen thirty-four hundred thousand

1. 734 ____________________________

2. 1,517 ____________________________

3. 8,500 ____________________________

4. 6,403 ____________________________

5. 8,012 ____________________________
Match the written form of the numbers in the left column to the standard form in the right column by drawing lines. (DOK 1)

6. seven hundred nineteen  
7. four thousand, nine hundred twenty-seven  
8. nine thousand, two hundred  
9. three hundred sixty-two  
10. two thousand, four hundred ninety-nine  
11. eight hundred forty-five

A) 362  
B) 845  
C) 4,927  
D) 2,499  
E) 9,200  
F) 719

Write the numbers in standard form on the lines. Be sure to use a comma when needed. (DOK 1)

12. one thousand, five hundred fifty-seven  
13. six thousand, three hundred thirty-three  
14. six hundred fourteen  
15. seven thousand, four hundred eleven  
16. three thousand, thirteen  
17. nine hundred eighty-eight  
18. four thousand, nine hundred five
1.3 Numbers in Expanded Form (DOK 2)

The expanded form of a number is a number sentence adding all the place values of a number.

**Example 1:** The number 7,834 can be written in expanded form by breaking the place values apart: $7,000 + 800 + 30 + 4 = 7,834$.

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<td>800</td>
<td>30</td>
<td>4</td>
</tr>
</tbody>
</table>

**Example 2:** The number 802 in expanded form is $800 + 2$. Notice that you skip any digits that are zeros.

**Example 3:** The number 8,080 in expanded form is $8,000 + 80$.

*Write the numbers in expanded form on the lines.* (DOK 2)

1. $7,204 = $ ___________________________
2. $1,990 = $ ___________________________
3. $6,574 = $ ___________________________
4. $9,202 = $ ___________________________
5. $468 = $ ___________________________
6. $2,025 = $ ___________________________
7. $3,749 = $ ___________________________
8. $4,530 = $ ___________________________
Write the expanded numbers in standard form on the lines. (DOK 2)

9. \(4,000 + 800 + 40 + 8 = \) __________

10. \(3,000 + 40 + 9 = \) __________

11. \(7,000 + 500 + 2 = \) __________

12. \(6,000 + 10 + 1 = \) __________

13. \(9,000 + 900 + 70 + 4 = \) __________

14. \(1,000 + 800 + 50 + 3 = \) __________

Circle your answers. (DOK 2)

15. Circle all the expanded numbers that are greater than 2,375.
   \(2,000 + 300 + 60 + 5 \quad 2,000 + 400 + 70 + 5 \quad 2,000 + 300 + 80 + 1\)
   \(3,000 + 100 + 10 + 7 \quad 2,000 + 200 + 90 + 5 \quad 2,000 + 300 + 70 + 4\)

16. Circle all the expanded numbers that are less than 4,814.
   \(4,000 + 700 + 10 + 4 \quad 4,000 + 800 + 10 + 5 \quad 4,000 + 700 + 90 + 4\)
   \(3,000 + 900 + 40 + 8 \quad 5,000 + 700 + 50 + 1 \quad 4,000 + 500 + 60 + 8\)

17. Circle all the numbers that are greater than 5,000 + 700 + 80 + 2.
   \(5,788 \quad 5,682 \quad 5,872 \quad 5,783 \quad 5,781\)

18. Circle all the numbers that are less than 7,000 + 300 + 20 + 1.
   \(7,320 \quad 7,231 \quad 7,422 \quad 7,312 \quad 7,501\)
1.4 Modeling Numbers (DOK 2)

We can use grids to model numbers. Each square in the grid is equal to 1. \( \square = 1 \)

100 squares = 100

10 squares = 10

1 square = 1

Find the value of each number model by adding the grids together. Write your answer on the line. (DOK 2)

1.
Read each question and follow the directions. (DOK 2)

5. Color the grids below to equal the number 325.

6. In this model, a chicken = 100, a chick (baby) = 10, and an egg = 1. What number does this picture represent? Write your answer on the line.

7. In this model, a whale = 100, a dolphin = 10, and a fish = 1. What number does this picture represent? Write your answer on the line.
1.5 Rounding Whole Numbers (DOK 2)

When you round a number to the nearest ten or hundred, you must first look at the digit to the right of the place value to which you are rounding. If the number to the right is 0, 1, 2, 3, or 4 - the number rounds down by changing all the digits to the right to zero. If the number to the right is 5, 6, 7, 8, or 9, round it up by one, and change all the digits to the right to zero.

Example 1: Round 412 to the nearest ten.
Look at the digit to the right of the tens place.
The ones place is to the right. It is a 2.
The number 2 rounds down.
The one in the tens place stays the same.
Change the 2 to a zero.

Answer: 412 rounded to the nearest ten is 410.

Example 2: Round 673 to the nearest hundred.
Look at the digit to the right of the hundreds place.
The tens place is the digit to the right. It is a 7.
The number 7 rounds up.
Change the digit in the hundreds place up by 1, from a 6 to a 7.
Change the other digits to the right of the hundreds place to zeros.

Answer: 673 rounded to the nearest hundred is 700.
Chapter 1 Whole Numbers

Round each number below to the nearest ten. Write your answers on the lines. The first one is done for you. (DOK 2)

1. 859 _________ 2. 375 _________ 3. 741 _________
4. 514 _________ 5. 826 _________ 6. 260 _________
7. 111 _________ 8. 905 _________ 9. 429 _________

Round each number below to the nearest hundred. Write your answer on the lines. The first one is done for you. (DOK 2)

10. 561 _________ 11. 451 _________ 12. 892 _________
13. 212 _________ 14. 550 _________ 15. 706 _________
16. 194 _________ 17. 137 _________ 18. 180 _________

Read each problem, and decide if it is true or false. Circle your answer. (DOK 2)

19. 842 rounded to the nearest hundred is 802. TRUE FALSE
20. 903 rounded to the nearest ten is 900. TRUE FALSE
21. 555 rounded to the nearest hundred is 600. TRUE FALSE
22. 709 rounded to the nearest ten is 700. TRUE FALSE
23. 867 rounded to the nearest hundred is 900. TRUE FALSE
24. 4,578 rounded to the nearest ten is 4,580. TRUE FALSE
25. 6,509 rounded to the nearest hundred is 6,510. TRUE FALSE
Example 3: Mr. Jackson is going on a trip. The first day he travels 247 miles. The second day he travels 182 miles. The third day he travels 318 miles. Round the number of miles Mr. Jackson drove the three days to the nearest hundred. Put your answer in an addition sentence.

Step 1: Round each number to the nearest hundred.
   First Day: 247 miles. This rounds to 200
   Second Day: 182 miles. This rounds to 200
   Third Day: 318 miles. This rounds to 300.

Step 2: Put the answer in an addition sentence.
   200 + 200 + 300

Read each problem. Round the numbers in the problem and put them in an addition sentence. (DOK 2)

26. Jake collects stamps. He has 14 stamps from India, 38 from England, and 27 from China. Round the number of stamps Jake has from each country to the nearest ten and put them in an addition sentence.

What is the total of the rounded numbers? ______________________

27. Theresa counted 113 birds on the first Saturday in May; 259 birds on the second Saturday in May; and 302 birds on the third Saturday in May. Round the number of birds Theresa counted each Saturday to the nearest hundred and put them in an addition sentence.

What is the total of the rounded numbers? ______________________
Chapter 2
Addition and Subtraction

Standard(s) covered: 3.NBT.A.2, LEAP.I.3.2, LEAP.I.3.3, LEAP.II.3.5, LEAP.III.3.2

2.1 Adding Whole Numbers (DOK 1, 2)

Each part of an addition sentence has a name. Look at the sentence $7 + 2 = 9$.

7 and 2: The numbers added together are called addends.

9: The answer in an addition problem is called a sum.

+: The plus sign means the two numbers should be added together.

=: The equal sign separates the problem from the answer.

Add $83 + 25$.
First, put the numbers in a column. Be sure to line up the place values.

\[
\begin{array}{c}
\phantom{+}83 \\
+ \phantom{8}25 \\
\hline
108 \\
\end{array}
\]

Next, add the ones column. $3 + 5 = 8$. Place the 8 under the line in the ones column.

\[
\begin{array}{c}
83 \\
+25 \\
\hline
8 \\
\end{array}
\]

Next, add the tens column. $8 + 2 = 10$. 10 is a two digit answer, so place the 0 under the tens column and the 1 under the hundreds column.

\[
\begin{array}{c}
\phantom{+}83 \\
+ \phantom{8}25 \\
\hline
108 \\
\end{array}
\]

Answer: $83 + 25 = 108$
Chapter 2 Addition and Subtraction

Remember to add the numbers from right to left. Start with the ones column, then the tens column, and then the hundreds column.

Add $594 + 378$.

First, put the numbers in a column, lining up the place values.

\[
\begin{array}{c}
594 \\
+ 378 \\
\end{array}
\]

Next, add the ones column. $4 + 8 = 12$.

12 is a 2 digit number, so place the 2 under the ones column, and add 1 to the tens column.

\[
\begin{array}{c}
1 \\
594 \\
+ 378 \\
\hline
2 \\
\end{array}
\]

Next, add the tens column. $1 + 9 + 7 = 17$.

17 is a 2 digit number, so place the 7 under the tens column, and add the 1 to the hundreds column.

\[
\begin{array}{c}
11 \\
594 \\
+ 378 \\
\hline
72 \\
\end{array}
\]

Next, add the hundreds column. $1 + 5 + 3 = 9$.

9 is a one digit number. Place the 9 under the hundreds column.

\[
\begin{array}{c}
11 \\
594 \\
+ 378 \\
\hline
972 \\
\end{array}
\]

Answer: $594 + 378 = 972$

Add the problems below, and see if you get the same answers.

\[
\begin{array}{cccc}
1 & 1 & 1 & 1 \\
273 & 482 & 506 & 863 \\
+ 619 & + 195 & + 277 & + 109 \\
892 & 677 & 783 & 972 \\
\end{array}
\]
Add the problems below. Write your answers under the problem. (DOK 1)

1. 104
   + 756

2. 423
   + 359

3. 870
   + 44

4. 29
   + 852

5. 556
   + 291

6. 488
   + 157

7. 640
   + 309

8. 39
   + 887

9. 616
   + 285

10. 734
    + 259

11. 502
    + 408

12. 278
    + 367

13. 658
    + 279

14. 493
    + 164

15. 440
    + 527

16. 399
    + 299

17. 908
    + 54

18. 172
    + 759

19. 346
    + 185

20. 256
    + 505
Write the problems in columns, and add on your own paper. Write your answers on the lines below. (DOK 1)

21. 158 + 647 = 
22. 304 + 597 = 

23. 422 + 351 = 
24. 668 + 107 = 

25. 104 + 608 = 
26. 811 + 188 = 

27. 572 + 198 = 
28. 266 + 394 = 

29. 674 + 180 = 
30. 533 + 278 = 

Read the problems and add. Show your work in the space under the problems. (DOK 2)

31. Bob has 213 seashells. His sister, Ava, has 198 seashells. How many seashells do Bob and Ava have in all?

32. Juan has 415 quarters. His brother has 178 quarters. How many quarters do the two boys have in all?

33. Cindy has a necklace with 52 beads on it and a box of 375 beads. How many beads does Cindy have in the necklace and box in all?
2.3 Subtracting Whole Numbers (DOK 1, 2)

Each part of a subtraction sentence has a name. Look at the problem \(18 - 5 = 13\).

18: The larger number in subtraction sentences is called the minuend.
5: The number subtracted from the minuend is called the subtrahend.
13: The answer in subtraction sentences is called the difference.

\(-\): The subtraction sign shows you should find the difference of the two numbers.
\(=\): The equal sign separates the problem from the answer.

First, put the numbers in a column. Be sure to line up the place values.

\[
\begin{array}{c}
145 \\
- 92 \\
\hline
\end{array}
\]

Next, starting with the ones column, subtract 5 - 2 = 3. Place the 3 under the ones column.

\[
\begin{array}{c}
145 \\
- 92 \\
\hline
\;
\end{array}
\]

3

Next, subtract the tens column. Since the number in the tens column on the top row is smaller than the number in the tens column on the bottom row, we need to borrow from the hundreds column. Now subtract 14 - 9 = 5. Place the 5 under the tens column.

\[
\begin{array}{c}
14 \\
\; \\
\hline
\end{array}
\]

\[
\begin{array}{c}
45 \\
- 92 \\
\hline
53
\end{array}
\]

The answer is 53.

Subtract the problems below, and see if you get the same answers.

\[
\begin{array}{c}
712 \\
-381 \\
\hline
442
\end{array}
\]

\[
\begin{array}{c}
823 \\
\hline
\end{array}
\]

\[
\begin{array}{c}
41017 \\
\hline
417
\end{array}
\]

\[
\begin{array}{c}
-288 \\
\hline
229
\end{array}
\]

On this next problem, notice you have to borrow twice:
Subtract the problems below. Write your answers under the problems. (DOK 1)

1. \[ \begin{array}{c}
513 \\
-179 \\
\end{array} \quad 2. \begin{array}{c}
428 \\
-333 \\
\end{array} \quad 3. \begin{array}{c}
792 \\
-306 \\
\end{array} \quad 4. \begin{array}{c}
900 \\
-702 \\
\end{array} \]

5. \begin{array}{c}
633 \\
-417 \\
\end{array} \quad 6. \begin{array}{c}
805 \\
-690 \\
\end{array} \quad 7. \begin{array}{c}
256 \\
-99 \\
\end{array} \quad 8. \begin{array}{c}
724 \\
-356 \\
\end{array} \]

9. \begin{array}{c}
687 \\
-451 \\
\end{array} \quad 10. \begin{array}{c}
824 \\
-327 \\
\end{array} \quad 11. \begin{array}{c}
971 \\
-652 \\
\end{array} \quad 12. \begin{array}{c}
422 \\
-83 \\
\end{array} \]

13. \begin{array}{c}
504 \\
-287 \\
\end{array} \quad 14. \begin{array}{c}
177 \\
-108 \\
\end{array} \quad 15. \begin{array}{c}
347 \\
-235 \\
\end{array} \quad 16. \begin{array}{c}
652 \\
-430 \\
\end{array} \]

17. \begin{array}{c}
874 \\
-295 \\
\end{array} \quad 18. \begin{array}{c}
653 \\
-424 \\
\end{array} \quad 19. \begin{array}{c}
849 \\
-703 \\
\end{array} \quad 20. \begin{array}{c}
534 \\
-398 \\
\end{array} \]
Write the problems in columns, and subtract on your own paper. Write your answers on the lines below. (DOK 1)

21. \[284 - 119\] 22. \[374 - 203\]

23. \[977 - 288\] 24. \[465 - 322\]

25. \[735 - 501\] 26. \[876 - 190\]

27. \[821 - 543\] 28. \[629 - 292\]

29. \[714 - 356\] 30. \[486 - 108\]

Read the problems and subtract. Show your work in the space under the problems. (DOK 2)

31. There are 365 days in a year. So far, 166 days have passed this year. How many days in the year are left?

32. Smiley is a clown who sells balloons. He started the week with 500 balloons. After the fair, Smiley has 145 balloons left. How many balloons did Smiley sell?

33. The zoo started the week with 990 pounds of meat for the alligators. By Thursday, the alligators had eaten 356 pounds of meat. How many pounds of meat are left?